

Download Apache Spark from <https://www.apache.org/dyn/closer.lua/spark/spark-3.5.5/spark-3.5.5-bin-hadoop3.tgz>

Extract it from following command

```
mescoe@mescoe-Lenovo-S510:~$tar -xvzf spark-3.5.5-bin-hadoop3.tgz
mescoe@mescoe-Lenovo-S510:~$ sudo mv spark-3.5.5-bin-hadoop3 /opt/spark
mescoe@mescoe-Lenovo-S510:~$ echo "export SPARK_HOME=/opt/spark" >> ~/.profile
mescoe@mescoe-Lenovo-S510:~$ echo "export PATH=$PATH:/opt/spark/bin:/opt/spark/sbin" >>
~/.profile
mescoe@mescoe-Lenovo-S510:~$ echo "export PYSPARK_PYTHON=/usr/bin/python3" >>
~/.profile
mescoe@mescoe-Lenovo-S510:~$ source ~/.profile
mescoe@mescoe-Lenovo-S510:~$ ls -l /opt/spark
```

start Spark

```
mescoe@mescoe-Lenovo-S510:~$ start-master.sh
mescoe@mescoe-Lenovo-S510:~$ sudo apt-get install openssh-client openssh-server
mescoe@mescoe-Lenovo-S510:~$ start-workers.sh spark://localhost:7077
```

Go to Web browser type into new tab <http://localhost:8080/>

go to terminal

```
source ~/.bashrc
spark-shell
```

```
scala> mescoe@mescoe-Lenovo-S510:~$
```

sudo apt-get update

```
mescoe@mescoe-Lenovo-S510:~$ sudo apt install snapd
snap find "intellij"
```

```
sudo snap install intellij-idea-community --classic
```

intellij-idea-community

```
scala> :paste
// Entering paste mode (ctrl-D to finish)
```

```
object ExFindLargest {
def main(args: Array[String]) {
var number1=20;
var number2=30;
var x = 10;
if( number1>number2){
println("Largest number is:" + number1);
}
```

```
else{  
println("Largest number is:" + number2);  
}  
}  
}
```

// Exiting paste mode, now interpreting.

defined object ExFindLargest

```
scala> ExFindLargest.main(Array.empty[String])  
Largest number is:30
```

Explanation:

- The `main` method is the entry point for a standalone Scala application. It's designed to be executed when you run the compiled code from the command line or using `sbt`.
- In the REPL, you're interacting with an interactive environment, so you need to explicitly call the `main` method to trigger its execution.
- `Array.empty[String]` is used, because the `main` method takes an array of strings as an argument, and in this example the `main` method does not use any command line arguments.